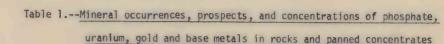
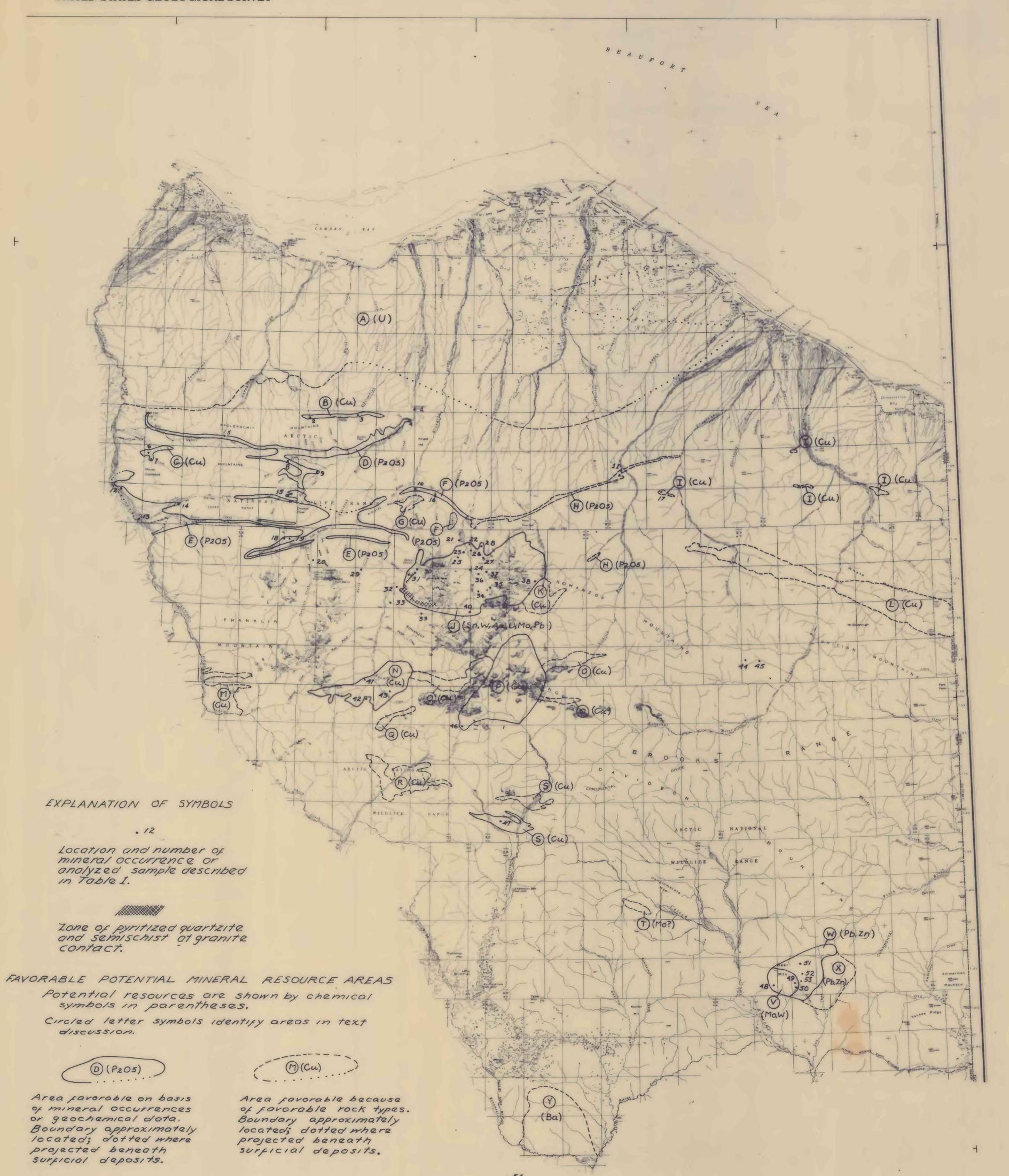
SHEET 4 OF 4

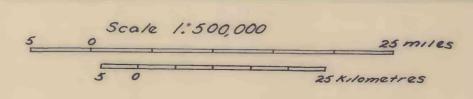


No.	T. R.	Resource	Description	References	
1	4N, 31E	U	20 parts per million (ppm) equivalent uranium (eU) in sample of Kingak Shale (Jurassic)	Tourtelot and Tailleur,	197
2 . 3	3N, 29E		Copper sulfides in amygdaloidal basalt; minor occurrence		
4	3N, 31E		Native copper reported in basalt 20_{\circ} P ₂ 0 ₅ and 40 ppm eU in sample from 10-foot bed of phosphate rock 25 feet above base of Shublik Fm. (Triassic). Less than 5_{\circ}° P ₂ 0 ₅ ; 20 ppm eU in two samples about 100 and 150 feet above base of Shublik	Patton and Matzko, 1959	
5	3N, 27E	U; P ₂ 0 ₅	35.8% P ₂ O ₅ ; 80 ppm eU in sample from 20-foot bed of phosphatic limestofie at base of Shublik Fm.	Patton and Matzko, 1959	
6	2N, 25E	Cu	Minor malachite and azurite stains in amygdaloidal basalt		
7	2N, 25E	Cu	Native copper reported in basalt. Azurite and malachite in breccia zone in Devonian or older dolomite overlying the basalt		
8	2N, 28E	P ₂ 0 ₅	30 ppm eU in sample of Kingak Shale Complete 475-foot section of Shublik Fm. sampled at 1-foot intervals. Averaged P ₂ O ₅ : 19.2 in 5-foot zone 75 feet above base, 11.5 in 20-foot zone 100 feet above base, 7.6 in 25-foot zone 275 feet above base, 16.7 in 10-foot zone 325 feet above base.	Tourtelot and Tailleur, Detterman, 1970	197
9	2N, 29E	U; P ₂ 0 ₅	P_2O_5 in remainder of formation generally less than 5% 5 P_2O_5 , 20 ppm eU in sample from about 150 feet above base	Patton and Matzko, 1959	
10	1N, 32E	U; P ₂ O ₅	of Shublik Fm. 15 P ₂ O ₅ , 30 ppm eU in sample from 20-foot bed of phosphatic	Patton and Matzko, 1959	
		P ₂ 0 ₅	phosphatic siltstone and shale in lower part of Shublik contain 10 P ₂ O ₅ , 30 ppm eU and less than 5% P ₂ O ₅ , 10 ppm eU, respectively 7% P ₂ O ₅ in siltstone in lowest 130 feet of Shublik Fm.;	Tourtelot and Tailleur,	1971
17	2N 27E	U	5% P ₂ O ₅ in phosphatic limestone near top 20 ppm eU in sample of Kingak Shale	Tourtelot and Tailleur,	
11	2N, 37E	P ₂ 0 ₅	1% P ₂ O ₅ in phosphatic limestone in Shublik Fm. 20 ppm eU in sample of Kingak Shale	Tourtelot and Tailleur, Tourtelot and Tailleur,	
12	IN, 24E	U; P ₂ 0 ₅	14.7% P ₂ O ₅ , 10 ppm chemical uranium in sample of phosphatic rock from Shublik Fm.	Patton and Matzko, 1959	
13	1N, 24E	U, P ₂ 0 ₅	1.6 P ₂ 0 ₅ , 10 ppm chemical uranium in sample of phosphatic limestone from Shublik Fm.	Patton and Matzko, 1959	
14	1N, 25E	P ₂ 0 ₅	Maximum P_20_5 3% in 10 samples from upper 195 feet of Shublik Fm.	Tourtelot and Tailleur, 1	1971
15	1N, 28E	U; P ₂ 0 ₅	18.4 P_2O_5 , 30 ppm eU in sample of siltstone near base of Shublik Fm.	Patton and Matzko, 1959	
6	1N, 32E	U, P ₂ 0 ₅	22 P_2O_5 , 70 ppm eU in sample of phosphate rock probably from Shublik Fm.	Patton and Matzko, 1959	
7	1N, 38E	Cu	Chalcopyrite in quartz vein in volcanic rocks	السلطاني	
8	1S, 29E	U; P ₂ 0 ₅	Less than $5\% \ P_2 O_5$ and 10 ppm eU in sample of limestone from Shublik Fm.	Patton and Matzko, 1959	
9	1S, 29E	U; P ₂ 0 ₅	Less than 5% P_2O_5 ; 30 ppm eU in sample of siltstone near base of Shublik Fm.	Patton and Matzko, 1959	
0	1S, 29E 1S, 33E	Cu U, W	0.3% Cu in thin vein in quartzite Heavy fraction of panned concentrate of stream sediment	White 1052	
			contains scheelite and 300 ppm eU	White, 1952	
3	1S, 33E 1S, 33E	U, Pb	50 ppm eU in sample of granite Heavy fraction of panned concentrate of stream sediment	White, 1952 White, 1952	
4	1S, 33E	U, Mo	contains fluorite; galena; 400 ppm eU	White, 1952	
5	1S, 33E	Мо	Mallub daniba da anada	Sable, 1965, p. 207	
5	1S, 33E	Pb, Zn,	Fluorite in vein quartz		
		Sn Sn	Sulfides and vein quartz in schist		
3	1S, 34E	Pb, Zn	Fluorite in small isolated body of granite; As, Pb, Zn by analysis in quartz veins		
)	2S, 31E	Sn	Clastic grains of cassiterite in Keikituk Conglomerate (Mississippian)	Reed, 1968, p. 31-33	
)	2S, 32E	Pb, Zn, Sn	Skarn contains galena, sphalerite, malachite, axinite; up to 300 ppm Sn and 1,500 ppm W, and quartz-tourmaline-fluorite		
1	2S, 32E	U	veins. Schist contains fluorite Heavy fraction of panned concentrate of stream sediments contains fluorite and 300 ppm eU	White, 1952	
2	2S, 3ZE	Sn	More than 0.1% Sn in panned concentrate of stream sediments		
3	2S, 31E	Sn, Au	60 ppm Au and more than 0.1% Sn in panned concentrate of stream sediments		
	2S, 34E	Мо	Molybdenite at contact of quartz veins with granite		
5	2S, 34E	Au, Ag	Pyritic zone in granite contains traces of Au and Ag, by chemical analysis		
	2S, 34E 2S, 34E	Pb, Zn,	Fluorite in greisen in granite Galena, sphalerite(?), chalcopyrite in quartz veins	Sable, 1965, p. 207	
3	2S, 35E	Cu	Malachite and azurite in calcareous hornfels	, , , , ,	
)	3S, 32E	Sn	More than 0.1% Sn in panned concentrate of stream sediments		
0	3S, 33E	Au?	Boiler and prospector's tools dated 1953. About 3 miles from coordinate location of 1932 Au placer claim	Heiner and Porter, 1972	
	4S, 31E	Cu	Chalcopyrite in sheared volcanic rocks		
3	5S, 31E 5S, 32E	Cu	Chalcopyrite in brecciated quartzite of Kekiktuk Conglomerate (Mississippian) Chalcopyrite in phyllite interbedded with chert and volcanic		
4	4S, 40E	Mn	5. Mn in sample of manganiferous siltstone from interval 175 feet thick in Lower Cretaceous rocks that includes thin	Detterman, 1975, p. 24	
5	4S, 41E	Mn	1 ayers of Mn nodules 0.2 Mn in sample of Lower Cretaceous siltstone	Detterman, 1975, p. 24	
6	6S, 34E	Cu	Malachite and azurite in sandstone	, 1970, p. 21	
7	8S, 35E	Cu	0.5 Cu and 0.15. Pb in sample of quartz veins in green slate and volcanic rocks	Brosge and Reiser, 1968	
3	12S, 42E			Brosge and Reiser, 1968	
9	12S, 43E		rhyolite dike in quartzite; 0.28 Zn in sample	Brosge and Reiser, 1968	
0	12S, 43E	Pb, Cu	Mineralized zone in phyllite near small rhyolite dike. As much as 2 Pb, 1 Cu, 0.16 Zn, 0.002 Mo in samples	Brosge and Reiser, 1968	
1	12S, 43E			Brosge and Reiser, 1968 Brosge and Reiser, 1968	
-	-0, 402	30, 10	conglomerate on phyllite; 0.06 Pb in sample	2.0552 and hersel, 1700	
3	12S, 43E	Pb	Galena veinlets in greenstone		

Where no reference is given, data are from fieldwork by E. G. Sable, 1957, 1958, 1969; H. N. Reiser and W. P. Brosge, 1967, 1969; and R. L. Detterman, 1971.



Base from USGS 1:250,000 Topo Series:
BARTER ISLAND, 1959; FLAXMAN ISLAND, 1955;
DEMARCATION POINT, 1955; MT MICHAELSON, 1956;
ARCTIC, 1956; TABLE MOUNTAIN, 1956; CHRISTIAN, 1956, COLEEN, 1956, ALASKA.



This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.

Preliminary Geologic and Mineral Resource Maps,

(excluding petroleum)

Arctic National Wildlife Range, Alaska

by W.P. Brosgé and H.N. Reiser, 1976

Sheet 4 - Mineral Resources